

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P384181

Luminaire Tested: **24ID-40-L850-CFD1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384181
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-67)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 24ID-40-L850-CFD1
Description: 2X4 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

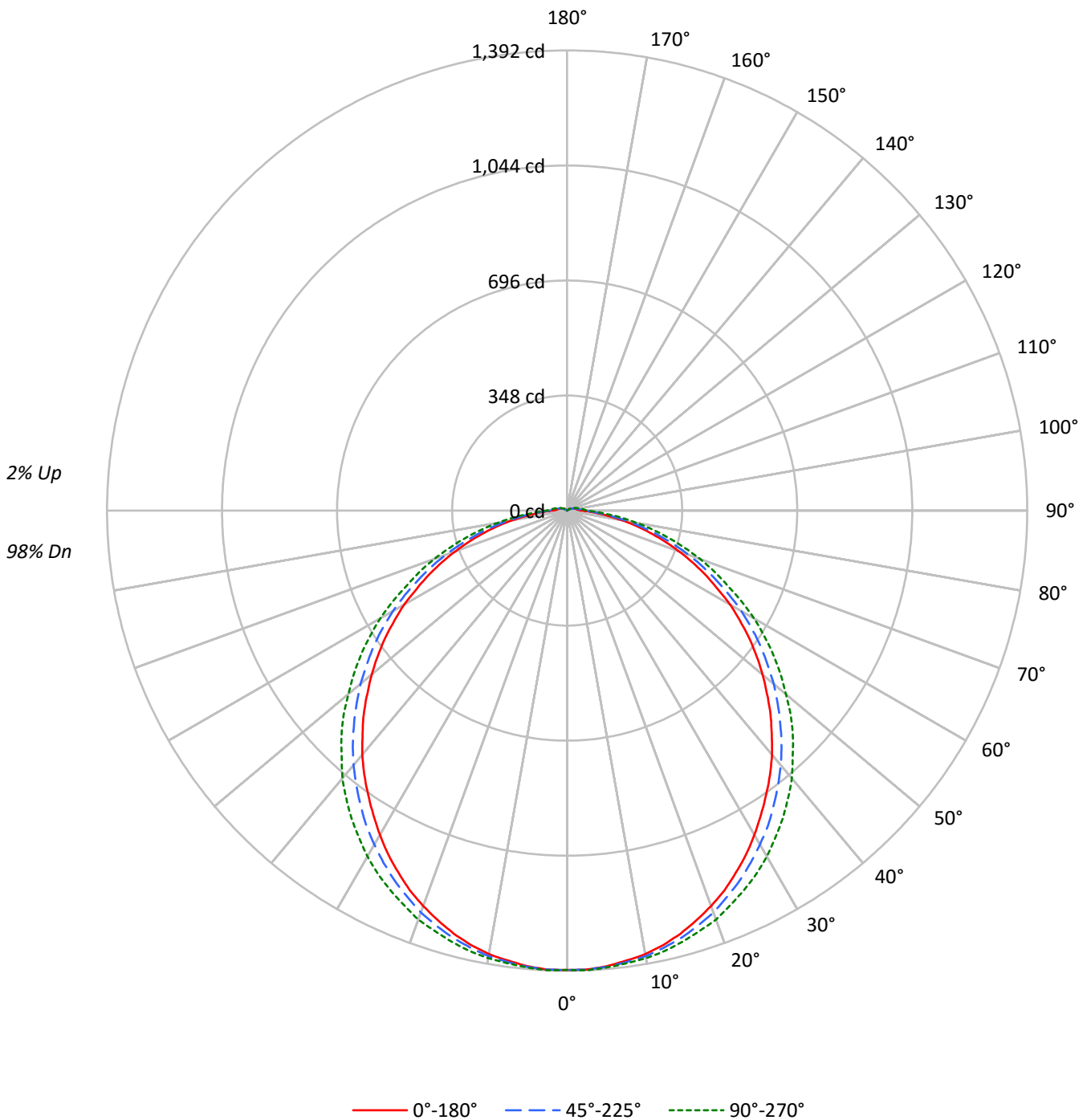
Lumens per Lamp: N/A
Luminaire Lumens: 4115.5 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.08')
CIE Type: Direct

Input Watts (W): 35.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P384181
CATALOG NUMBER: 24ID-40-L850-CFD1

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100	98
1	108	103	98	94	105	100	96	92	96	92	89	91	88	86	87	85	83	81
2	98	89	82	76	95	87	81	75	83	78	73	80	75	71	76	73	69	67
3	89	78	70	63	86	76	69	63	73	67	61	70	64	60	67	62	58	56
4	81	69	60	53	79	68	59	53	65	58	52	62	56	51	60	55	50	48
5	75	62	53	46	73	61	52	46	58	51	45	56	49	44	54	48	44	41
6	69	56	47	40	67	55	46	40	52	45	39	51	44	39	49	43	38	36
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32
8	60	46	37	32	58	45	37	31	44	36	31	42	36	31	41	35	30	28
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	38	32	27	26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1870	1870	1870
5°	1865	1864	1867
10°	1855	1856	1865
15°	1835	1841	1860
20°	1809	1823	1857
25°	1776	1797	1844
30°	1739	1767	1833
35°	1699	1735	1815
40°	1664	1703	1795
45°	1622	1662	1765
50°	1577	1622	1723
55°	1530	1575	1686
60°	1479	1523	1639
65°	1412	1444	1561
70°	1335	1369	1510
75°	1248	1267	1427
80°	1157	1151	1334
85°	1119	1070	1266



TEST NUMBER: P384181

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.6	3.2
10°-20°	377.3	9.2
20°-30°	569.6	13.8
30°-40°	682.4	16.6
40°-50°	705.6	17.1
50°-60°	638.9	15.5
60°-70°	494.4	12.0
70°-80°	303.7	7.4
80°-90°	120.7	2.9
90°-100°	44.0	1.1
100°-110°	27.1	0.7
110°-120°	13.9	0.3
120°-130°	5.9	0.1
130°-140°	0.4	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1078.4	26.2
0°-40°	1760.9	42.8
0°-60°	3105.4	75.5
0°-90°	4024.2	97.8
90°-120°	85.0	2.1
90°-150°	91.3	2.2
90°-180°	91.0	2.2
0°-180°	4115.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1390	1390	1390	1390	1390	
5°	1383	1383	1385	1385	1388	131
15°	1325	1327	1337	1346	1350	373
25°	1208	1216	1235	1256	1266	557
35°	1050	1062	1089	1118	1137	657
45°	870	880	912	949	966	671
55°	672	686	714	745	762	600
65°	463	474	497	522	534	458
75°	259	271	284	302	317	276
85°	90	96	104	115	121	89
90°	42	48	52	58	63	25
95°	31	36	40	44	48	25
105°	23	23	25	27	29	24
115°	15	12	12	15	17	15
125°	8	6	4	6	8	8
135°	0	0	0	0	0	1
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P384181

CATALOG NUMBER: 24ID-40-L850-CFD1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1389.6	1389.6	1389.6	1389.6	1389.6
2.5°	1389.6	1387.5	1389.6	1389.6	1391.7
5°	1383.3	1383.3	1385.4	1385.4	1387.5
7.5°	1372.9	1372.9	1377.1	1379.1	1381.2
10°	1362.5	1362.5	1368.7	1370.8	1375.0
12.5°	1345.8	1347.9	1354.1	1360.4	1364.5
15°	1324.9	1327.0	1337.4	1345.8	1349.9
17.5°	1299.9	1304.0	1316.6	1329.1	1333.2
20°	1272.7	1279.0	1293.6	1308.2	1316.6
22.5°	1243.5	1247.7	1264.4	1283.2	1291.5
25°	1208.1	1216.4	1235.2	1256.0	1266.5
27.5°	1172.6	1180.9	1201.8	1226.8	1239.4
30°	1132.9	1141.3	1166.3	1193.5	1208.1
32.5°	1091.2	1101.7	1130.9	1158.0	1172.6
35°	1049.5	1062.0	1089.1	1118.3	1137.1
37.5°	1007.8	1018.2	1047.4	1078.7	1097.5
40°	963.9	974.4	1005.7	1037.0	1057.8
42.5°	916.0	928.5	959.8	993.2	1009.8
45°	870.1	880.5	911.8	949.3	966.0
47.5°	820.0	834.6	863.8	899.3	918.0
50°	772.0	784.5	815.8	849.2	863.8
52.5°	721.9	734.4	763.6	797.0	813.7
55°	671.8	686.4	713.6	744.9	761.6
57.5°	619.7	634.3	661.4	688.5	707.3
60°	569.6	584.2	609.2	636.4	653.1
62.5°	513.3	525.8	552.9	582.1	594.6
65°	463.2	473.6	496.6	521.6	534.1
67.5°	411.0	423.6	444.4	467.4	482.0
70°	358.9	373.5	390.2	411.0	427.7
72.5°	308.8	321.3	335.9	356.8	371.4
75°	258.7	271.2	283.8	302.5	317.1
77.5°	214.9	221.2	233.7	250.4	265.0
80°	166.9	175.3	185.7	202.4	212.8
82.5°	125.2	133.5	141.9	154.4	164.8
85°	89.7	96.0	104.3	114.8	121.0
87.5°	60.5	66.8	73.0	81.4	87.6
90°	41.7	48.0	52.2	58.4	62.6
92.5°	35.5	39.6	43.8	48.0	52.2
95°	31.3	35.5	39.6	43.8	48.0
97.5°	29.2	31.3	35.5	39.6	41.7
100°	27.1	29.2	31.3	35.5	37.6
102.5°	25.0	25.0	29.2	31.3	33.4
105°	23.0	23.0	25.0	27.1	29.2
107.5°	20.9	20.9	23.0	23.0	27.1
110°	18.8	16.7	18.8	18.8	23.0



TEST NUMBER: P384181

CATALOG NUMBER: 24ID-40-L850-CFD1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	16.7	14.6	16.7	16.7	18.8
115°	14.6	12.5	12.5	14.6	16.7
117.5°	12.5	10.4	10.4	10.4	14.6
120°	12.5	10.4	8.3	8.3	12.5
122.5°	10.4	8.3	6.3	8.3	10.4
125°	8.3	6.3	4.2	6.3	8.3
127.5°	6.3	6.3	2.1	4.2	6.3
130°	6.3	4.2	2.1	4.2	4.2
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)